

BY: \$USER\$

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 26 (LIBERTY ROAD) AND McDONOGH ROAD/GREENS LANE IN BALTIMORE COUNTY, MARYLAND. MD 26 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA FOUR-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE MD 26 APPROACHES OPERATING CONCURRENTLY AND THE McDONOGH ROAD/GREENS LANE APPROACHES OPERATING SPLIT.

AN ALTERNATE PEDESTRIAN PHASE IS PROVIDED ACROSS THE WEST LEG OF MD 26 AND PEDESTRIAN INDICATIONS ARE PROVIDED ACROSS McDONOGH ROAD AND GREENS LANE.

APS NOTES

APS WILL FUNCTION AS FOLLOWS:

- MD 26 (LIBERTY ROAD)
 - WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE MESSAGE WILL BE "WAIT TO CROSS LIBERTY ROAD".
 - WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.
- McDONOGH ROAD
 - WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE MESSAGE WILL BE "WAIT TO CROSS McDONOGH ROAD".
 - WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.
- GREENS LANE
 - WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE MESSAGE WILL BE "WAIT TO CROSS GREENS LANE".
 - WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

CONTROLLER REQUIREMENTS

INSTALL A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH VIDEO INTERFACE EQUIPMENT (1-4 CAMERAS), ONE (1) FOUR-CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER, SYSTEM PACKAGE AND ASSOCIATED HARNESSES HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET.

PHONE DROP

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER THE NEAREST STREET ADDRESS, ZIP CODE, AND PHONE NUMBER.

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT. ADDITIONAL TRAFFIC CONTROL STANDARDS MAYBE USED AS DIRECTED BY THE ENGINEER.

STANDARD NO. MD-104.04-01 (SHOULDER WORK)
STANDARD NO. MD-104.04-03 (LEFT LANE CLOSURE)
STANDARD NO. MD-104.04-05 (RIGHT LANE CLOSURE)

CONTACT PERSONS FOR DISTRICT 4 ARE AS FOLLOWS:

MS. ERIN KUHN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
(410) 321-2761

MR. ANDRE FUTRELL
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
(410) 321-2761

MR. MICHAEL PASQUARELLO
ASSISTANT DISTRICT ENGINEER - UTILITIES
(410) 321-2841

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR.
CHIEF, TRAFFIC OPERATIONS
(410) 787-7630

MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
(410) 787-7676

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS
(410) 787-7631

MS. DARLENE EIDE
SUPPLY OFFICE
SIGNAL SHOP WAREHOUSE
(410) 787-7668

MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
(410) 787-7652

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
900000	1	EA	TYPE "G" CABINET WITH PUSHBUTTON FOR POINT CONTROL PERSON
963010	1	EA	FOUR-CHANNEL, TIME-DELAY-OUTPUT, LOOP DETECTOR AMPLIFIER
971017	1	EA	EIGHT-PHASE, FULL-TRAFFIC-ACTUATED CONTROLLER WITH INTERSECTION MONITOR HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET
900000	1	EA	VIDEO INTERFACE EQUIPMENT: 1-4 CAMERAS
973023	100	SF	SHEET ALUMINUM SIGNS TO CONSIST OF : <ul style="list-style-type: none">4 EACH R10-11b SIGN (24 IN. x 24 IN.) - MAST ARM MOUNT2 EACH R3-5(L) SIGN (30 IN. x 36 IN.) - MAST ARM MOUNT2 EACH D-3(2) SIGN (VARIABLE x 16 IN.) DUAL FACED - MAST ARM MOUNT2 EACH M95-1 MOD. (72 IN. x 40 IN.) - MAST ARM MOUNT2 EACH R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS McDONOGH ROAD"2 EACH R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS GREENS LANE"2 EACH R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS LIBERTY ROAD"

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

EQUIPMENT LIST "B"

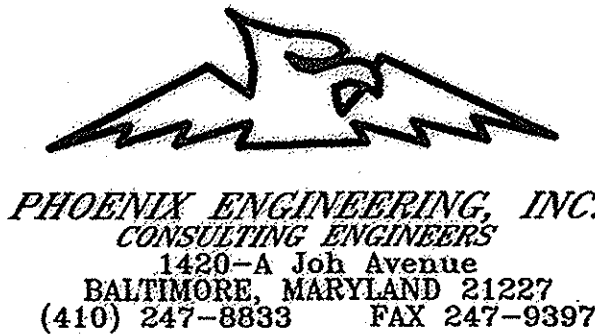
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR


ITEM NO.	QUANTITY	UNIT	DESCRIPTION
114285	16	EA	REMOVAL OF EXISTING PERMANENT PAVEMENT MARKING LETTERS, SYMBOLS, ARROWS AND NUMBERS
585621	930	L.F.	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
585625	145	L.F.	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
585428	4	EA.	LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKING ARROW
585426	8	EA.	LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKING LETTER

EQUIPMENT LIST "B"

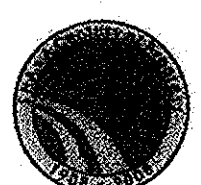
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
860284	36	EA	12 INCH VEHICULAR LED TRAFFIC SIGNAL HEAD SECTION
800000	1	EA	2 WIRE CENTRAL CONTROL UNIT
800000	6	EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION & SIGNS
818004	4	EA	10 FOOT BREAKAWAY PEDESTAL POLE (CUT TO 6')
800000	4	EA	16 INCH PEDESTRIAN LED SIGNAL HEAD SECTION - POLE MOUNTED (COUNTDOWN)
800000	2	EA	16 INCH PEDESTRIAN LED SIGNAL HEAD SECTION - PEDESTAL POLE MOUNTED (COUNTDOWN)
818030	1	EA	STEEL POLE WITH A SIGNLE 38 FOOT MAST ARM
810601	2	EA	NON-INVASIVE DETECTOR, 500 FOOT LEAD IN CABLE
810605	2	EA	NON-INVASIVE DETECTOR, 1000 FOOT LEAD IN CABLE
800000	1	EA	REMOVE & DISPOSE OF EXISTING MATERIAL AND EQUIPMENT
800000	1	EA	16.5 FOOT STEEL POLE WITH A TWIN 50/70 MAST ARMS
816001	2	EA	VIDEO DETECTION CAMERA
822001	3820	L.F.	12 - PAIR COMMUNICATION CABLE, SELF-SUPPORTING (OVERHEAD)
800000	70	L.F.	DISCONNECT, PULL-BACK & REROUTE CABLES
802501	450	L.F.	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805050	1	EA	WEATHER HEAD, 3 INCH
807202	1	EA	METERED SERVICE PEDESTAL EMBEDDED
810010	60	L.F.	ELECTRICAL CABLE 1-CONDUCTOR NO. 4 AWG-THHN/THWN
811001	14	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
860292	4	EA	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
861105	925	L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861106	10	L.F.	ELECTRICAL CABLE- 3 CONDUCTOR (NO. 14 AWG)
861107	1500	L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
861108	1380	L.F.	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
871201	1	EA	INSTALL CONTROLLER AND CABINET - POLE MOUNT
871202	1	EA	INSTALL CONTROLLER AND CABINET - BASE MOUNT
801004	18	C.Y.	CONCRETE FOR SIGNAL FOUNDATION
805125	90	L.F.	2 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
805135	525	L.F.	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
805140	130	L.F.	4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
805150	195	L.F.	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-SLOTTED
805155	245	L.F.	4 INCH SCHEDULE 80 RIGID PVC CONDUIT-SLOTTED
821003	4	EA	BREAKAWAY BASE SUPPORT SYSTEM FOR SIGNAL STRUCTURE
837001	11	EA	GROUND ROD 3/4 INCH DIAMETER X 10 FOOT LENGTH
801607	100	S.F.	INSTALL SHEET ALUMINUM SIGN
816005	1	EA	CONTROL CABLE, 250 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER
816010	1	EA	CONTROL CABLE, 500 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER
800000	1	EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON BASE UNIT
800000	1	EA	16.5 FT. STEEL "T" POLE WITH SINGLE 38 FT. MAST ARM
860270	6	EA	8 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION





STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 26 (Liberty Road) and
McDonogh Road/Greens Lane



GENERAL INFORMATION SHEET

SCALE	NONE	DATE	FEB 28, 2008	CONTRACT NO.	BA4335177
DESIGNED BY	D. A.	COUNTY	Baltimore		
DRAWN BY	C. F.	LOGMILE	03002605.30		
CHECKED BY	J. H.	TIMS NO.	H610		
FAP NO.	SEE TITLE SHEET	TOD NO.			
TS NO.	TS-447G	DRAWING	G1-3	OF	G1-4
				SHEET NO.	21 OF 27